

IN THE CLAIMS

1. (Currently Amended) A shaft operator assembly (8) for powering a door (2) comprising a movable door leaf (4) and a door shaft (6) geared to said door leaf (4) for common movement, including a shaft connecting means (20) for connecting a driven member (35) of said shaft operator assembly (8) to said door shaft (6), wherein said shaft connecting means (20) comprises a connecting plate element (29) secured to or integrally configured with said driven member (35) and a shaft connecting element (28) mountable non-rotatably, ~~more particularly positively non-rotatably~~, on said door shaft (6), said shaft connecting element (28) including an axial opening (39) extending through said shaft connecting element (28) for receiving non-rotatably, ~~more particularly positively non-rotatably~~, said door shaft (6) and connectable or connected by a plate connecting portion (42) located radial outside of said opening 39 to said connecting plate element (29).

2. (Currently Amended) The shaft operator assembly as set forth in claim 1, wherein said connecting plate element is a flat connecting plate (29) configured separately from said shaft connecting element (28), said plate connecting portion (42) and said connecting plate (29) being interconnectable ~~preferably positively engagingly~~.

3. (Currently Amended) The shaft operator assembly as set forth in claim 2, wherein said plate connecting portion (42) comprises at least one axial protuberance (43) and/or at least one axial retracting recess and said connecting plate (29) has a structure configured complementary to said plate connecting portion (42), corresponding with at least one axial retracting recess (45) for receiving said protuberance (43) and/or at least one axial protruding portion for engaging said recess so that said plate connecting portion (42) and connecting plate (29) interlock.

4. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein said shaft connecting element (28) is shiftably mountable on said door shaft (6) and definably locked in place thereon by positive friction action against shifting out of place.

5. (Currently Amended) The shaft operator assembly as set forth in claim 4, wherein said shaft connecting element comprises a radial tapped hole for receiving a clamping cap screw (40) to lock said tube connecting element (28) to said ~~drive tube~~ (6) door shaft .

6. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein the inner axial opening (39) of said shaft connecting element (28) comprises a protuberance (47) extending radial inwards for engaging a slot (24) extending axial on the contour of said door shaft.

7. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein an assortment of shaft connecting elements (28) having axial openings (39)ifferingly configured is provided for connecting to door shafts differing in size and/or for positively accommodating door shafts (6)ifferingly contoured.

8. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ where relating back to claim 2 claim 2, wherein said shaft connecting element (28) and said connecting plate (29) are secured to each other by means of cap screws (38).

9. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein said driven member (35) is formed by or comprises a quill shaft or hollow shaft shaft(36) totally housed in a gearcase.

10. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein said connecting plate (29) is secured non-rotatably to said driven member (35) by means of a coupler (27).

11. (Currently Amended) The shaft operator assembly as set forth in ~~claim 9 or claim 10~~, wherein said coupler (27) comprises an engaging portion (52) positively engaging non-rotatably said hollow shaft (36).

12. (Currently Amended) The shaft operator assembly as set forth in claim 10 or 11, wherein said connecting plate (29) is clasped by said coupler (27) and comprises on the side (44) opposite said driven member (35) for facing to said door shaft a receiving recess (46) in which the clasping portion (48) of said coupler (27) is fully receivable.

13. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 10, wherein said coupler (27) comprises a flanged portion (48) for positively receiving said connecting plate (29) non-rotatably for axial shifting thereof.

14. (Currently Amended) The shaft operator assembly as set forth in claim 12 and 13, wherein the outer contour of said flanged portion (48) of said coupler (27) is insertable non-rotatably into said axial opening (39) of said shaft connecting element (28) for axial shifting thereof.

15. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein the outer contour of said plate-type flanged portion (48) of said coupler (27) has a modified hexagonal shape in which four flats (61-64) are located by their centerpoints equispaced radially from said longitudinal centerline, a fifth edge (66) being configured nearer to said longitudinal centerline and longer and a sixth edge (65) being adapted to the contour (47) of said axial opening (39) of said tube connecting element (28) serving to engage said drive tube (6).

16. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein said connecting plate element (29) is locked in place by a cap screw (30) extending centrally axial in said driven member (35) in preventing axial movement thereof of said

connecting plate element by it said connecting plate element being drawn into contact with a flat of said driven member (35).

17. (Currently Amended) The shaft operator assembly as set forth in claim 16, wherein said coupler (27) is locked in place by a cap screw (30) extending centrally axial in said driven member (35) in preventing axial movement thereof by said coupler (27) with said connecting plate (29) being drawn into contact with said driven member (35).

18. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein an assortment of connecting plate elements (29) differing in size is provided for connecting a variety of shaft connecting elements (28), each of which can be secured to said driven member (35) by the same coupler (27).

19. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein said connecting plate (29) and said shaft connecting element (28) are made of zinc die-cast.

20. (Currently Amended) The shaft operator assembly as set forth in ~~any of the preceding claims~~ claim 1, wherein said driven member (35) is arranged on a gearcase (34) featuring a recess (56) for receiving at least in part said connecting plate element (29,55) arranged on said driven member (35).

21. (Currently Amended) A door (2) including a door leaf (4) and a door shaft (6) geared thereto, wherein ~~a~~ the shaft operator assembly (8) as set forth in ~~any of the preceding claims~~ claim 1 is connected to said door shaft (6).

22. (Currently Amended) The door as set forth in claim 21, wherein said door shaft (6) is a torsion spring shaft provided full-length with a slot (24).

23. (Currently Amended) A method for connecting a shaft operator assembly (8) as set forth in ~~any of the preceding claims~~ claim 1 to a door shaft (6) comprising the steps:

- a) mounting said shaft connecting element (28) on said door shaft (6),
- b) moving said shaft operator assembly (8) with said connecting plate element (29) arranged on said driven member in a direction radial to the longitudinal centerline of said door shaft into the assembly position at the end of said door shaft,
- c) securing in situ said shaft operator assembly (8) and fastening said shaft connecting element (28) on said connecting plate element (29),
- d) locking said shaft connecting element (28) in place to prevent displacement on said drive tube (6), more particularly by means of clamping cap screws (40).

24. (Currently Amended) The method as set forth in claim 23, comprising prior to step b) the steps:

- al) mounting a connecting plate (29) used as said connecting plate element on said driven member (35) and
- a2) bracing said connecting plate (29) by means of a central axial bracing means (27, 30, 31) to said driven member (35).

25. (Currently Amended) A method for connecting a shaft operator assembly (8) as set forth in ~~any of the preceding claims~~ claim 1 to a door shaft (6) comprising furthermore the steps:

- e) securing said connecting plate element (29) non-rotatably to said shaft connecting element (28),
- f) mounting said shaft operator assembly (8) with said shaft connecting element (28) on said door shaft (6)

g) securing in situ said shaft operator assembly (8),
h) locking said tube shaft connecting element (28) in place to prevent displacement on
said ~~drive tube~~ (6) door shaft by means of locking cap screws (40.).

26. (Currently Amended) The method as set forth in claim 25, wherein step e)
involves:

e1) securing said connecting plate (29) used as said connecting plate element to said tube
shaft connecting element (28) positively nonrotatably to form a resulting unit,
e2) mounting the resulting unit on said driven member (35),
e3) inserting said coupler (27) into said unit thus formed through said opening (39) of
said tube connecting element (28),
e4) bracing said connecting plate (29) on said driven member (35) by means of said
coupler (27), the sequence of steps e2) and e3) being optional.

27. (New) The shaft operator assembly as set forth in claim 1, wherein the shaft
connecting element is mountable positively non-rotatably on said door shaft and said shaft
connecting element includes said axial opening extending through said shaft connecting element
for receiving positively non-rotatably said door shaft.

28. (New) The shaft operator assembly as set forth in claim 1, wherein said plate
connecting portion and said connecting plate are positively engagably interconnectable.